TOWN OF PARADISE VALLEY

WALK & BIKE PARADISE VALLEY

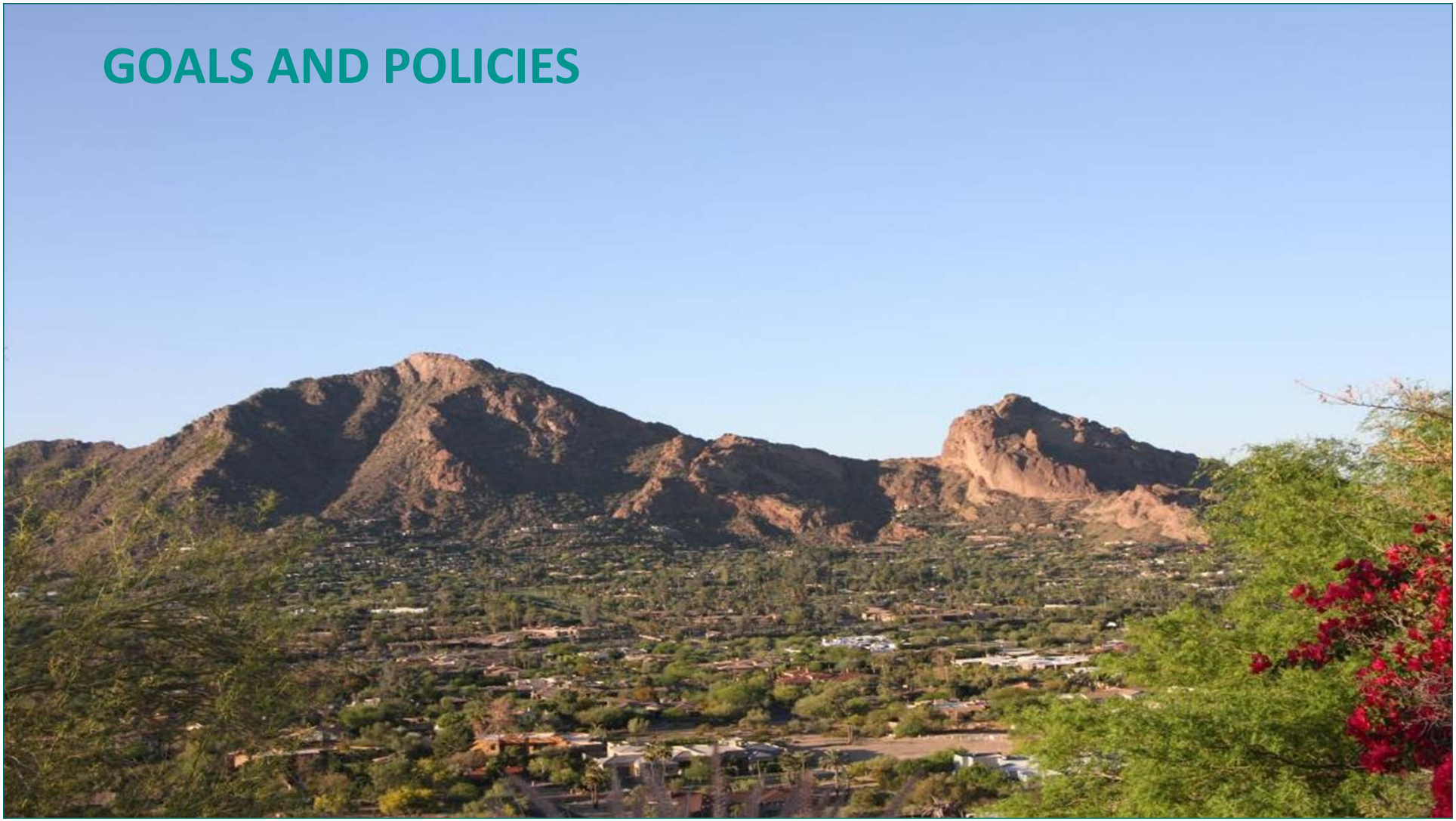
The Paradise Valley Bicycle & Pedestrian Master Plan

Planning Commission
September 19, 2017

Purpose of Today's Meeting

1. Review Goals & Policies
2. Review Implementation Measures

GOALS AND POLICIES



GOALS AND POLICIES

Goal BP 4.1: Non-Motorized Circulation System. To *provide* a *unique high-quality non-motorized circulation system throughout the Town to* meet *the needs of residents, employees, and resort guests. (Goal M 4.2.1Towns General Plan)*

Policies

BP 4.1.1	*Safe and Convenient Access to Destinations.* The Town shall implement a non-motorized circulation system for predominantly recreational and social purposes. This network shall provide safe, convenient, and enjoyable access to destinations that are open to the public along designated bicycle and pedestrian routes identified in this Plan. Facilities providing this access may be one or more of the facility types identified in this Plan. (Policy M 4.2.1.1, Town's General Plan)
BP 4.1.2	*Linkage.* The Town shall plan for and provide the development of non-motorized system linkages to neighborhood community non-motorized networks (Policy M 4.2.1.3, Town's General Plan)
BP 4.1.3	*Right-of-Way.* The Town shall design existing and future roadway rights-of-way to provide safety for pedestrian and users of non-motorized modes of transportation. (Policy M 4.2.1.4, Town's General Plan)
BP 4.1.4	*Conflicts.* The Town shall develop safe and convenient bicycle and pedestrian facilities that reduce potential conflicts between bicyclists and motor vehicles and bicyclists and pedestrians. Design of the non-motorized system shall consider ways to avoid such conflicts along routes with particular attention at roadway intersections and within hillside areas of Town. (Policy M 4.2.3.2, Town's General Plan)
BP 4.1.5	*Transfer Points.* Where feasible, the Town shall plan for and provide the development of non- motorized system that allows for persons to transfer easily between such places as local transit stops, seasonal trolley stops, and ride-share locations. (New)
BP 4.1.6	*Connection to Schools and Community Facilities.* The Town shall ensure that its network of bicycle and pedestrian facilities include safe access and convenient connections to schools and other community facilities throughout the Town. (Policy M 4.2.3.8, Town's General Plan)

- Commission reviewed in Feb '17
- Track changes show proposed changes since Feb '17
- Request Commission identify
  - Edits
  - Deletions
  - Additions

GOALS AND POLICIES

Goal BP 4.2: Operations and Management. To *provide a comprehensive management and operations program for the Non-Motorized Circulation System, from project inception to budget development and on-going maintenance, education, promotion and rule enforcement.*
(New Goal)

Policies

BP 4.2.1	*Maintenance.* The Town shall maintain bicycle and pedestrian facilities and its corresponding signage/wayfinding. (Policies M 4.2.1.2 and M 4.2.1.5, Town's General Plan)
BP 4.2.2	*Funding & Implementation.* The Town shall continue its long- range program for planning and constructing non-motorized circulation facilities and seek ways through transfer, gift, grants, easement, or Capital Improvement Program funds to complete the system and to fund studies, programs and policies. (Policy M 4.2.1.2 and M 4.2.1.5, Town's General Plan)
BP 4.2.3	*Regional Coordination.* The Town shall participate in regional bicycle and pedestrian planning efforts in order to coordinate facility development, ensure that regional bikeway system designations are consistent with the Town's Bicycle Facilities Plan, and be kept aware of potential funding sources. (Policy M 4.2.3.7, Town's General Plan)
BP 4.2.4	*Education.* The Town shall use a variety of means to educate non- motorized and motorized users regarding laws and safe use practices of non-motorized and shared facilities that may include public outreach events, such as the Town-sponsored Safety Fair, and volunteer efforts from Town-sponsored groups, such as the Advisory Committee on Public Safety. (New)
BP 4.2.5	*Enforcement.* The Town shall enforce existing and consider new state and local statutes related to bicycles and pedestrians. (New)
~~*BP 4.2.6*~~ *DELETE*	~~*Promotion and Publicity.* Using a multi-prong approach of events, activities, maps, statutes/laws, and branding, the Town shall disseminate information regarding the non- motorized circulation system.~~ *(SOD direction is to minimize promotion)*
BP 4.2.6~~7~~	*Internal Planning Process.* The Town shall implement internal policies that ensure proper communication and coordination among the various departments and sections working to improve biking ~~bicycle~~ and walking in Paradise Valley ~~from planning through implementation~~. (New)
BP 4.2.7~~8~~	*Resort Coordination.* In order to stay aware of resort visitor needs and the programs resorts develop to serve their clientele, the Town shall coordinate regularly with resort representatives. (New)

GOALS AND POLICIES

Goal BP 4.3: Integrated Pedestrian System. To *provide a universally accessible, safe, experientially rewarding, convenient, and integrated pedestrian system throughout the Town that promotes walking, running and hiking.*
(Goal M 4.2.2, Town's General Plan)

Policies

BP 4.3.1	*Interconnected and Continuous System.* The Town shall design, build and maintain an interconnected and continuous pedestrian system of public trails, sidewalks, ~~shared use~~ recreation paths ~~(paved), trails (unpaved)~~, and appropriately enhanced street crossings for convenient and safe walking free of major impediments and obstacles. (Policy M 4.2.2.1, Town's General Plan)
BP 4.3.2	*Pedestrian-Friendly Streetscapes.* The Town shall ensure that streets include the appropriate level of pedestrian-friendly accommodation by providing such elements as detached sidewalks, frequent and safe pedestrian crossings, large medians to reduce pedestrian crossing distances, shade trees, plantings, and where appropriate seating, ~~where appropriate~~ wayfinding signage, and other amenities. (Policy 4.2.2.2, Town's General Plan)
BP 4.3.3	*Safe and Accessible Facilities.* The Town shall develop safe and convenient pedestrian facilities that are universally accessible, properly designed and maintained for the safety of pedestrians. (Policy M 4.2.2.3, Town's General Plan)
~~*BP 4.3.4*~~	*Low Impact Approach.* As a low impact approach to providing pedestrian facilities, the street shall serve as a shared use route for all modes on roads classified as local, unless otherwise identified by this Plan or approved with pedestrian facilities by Town Council. In approving pedestrian facilities on local roads, the Town shall consider how the facility will improve safety, the number of persons using the route based on factors such as lot size/density, and impact to ~~space along lower classified streets, the Town shall consider the use of trails (unpaved) and minimal to no street markings, and for signage to be in~~ the scale and character of the neighborhood. *(With the removal of the enhanced local cross-section, this policy is not fully applicable. However, the proposed local cross-sections do provide pedestrian facility options via Council approval)* (New)
BP 4.3.5	*Low Maintenance Design.* As a low maintenance approach to providing connectivity between other bicycle and pedestrian facilities in select destinations, the Town shall consider a paved recreation~~shared use~~ path along one side of the roadway or other similar methods. (New)
BP 4.3.6	*On-site Connectivity.* The Town shall encourage a continuous pedestrian route between public pedestrian facilities and main entrances of public or semi-public buildings. (New)

GOALS AND POLICIES

Goal BP 4.4: Integrated Bicycle System. To *provide a safe, comprehensive, and integrated bicycle system throughout the Town that is accessible and compatible with traffic patterns, land uses, and neighborhoods.*
(Goal4.2.3, Town's General Plan)

Policies

BP 4.4.1	*Bicycle Circulation.* The Town shall design, build, and maintain a Bicycle Circulation System of bike lanes~~, routes~~ and recreation~~shared use~~ paths through the Town in accordance with updated Street Classifications and Route Maps of this Plan. (Policy M 4.2.2.3, Town's General Plan) *(The identification of bike routes are removed with this Plan)*
BP 4.4.2	*Safe Facilities.* The Town shall develop safe and convenient bicycle facilities that are compatible with other regional bicycle facilities. (Policy M 4.2.3.2, Town's General Plan)
BP 4.4.3	*Bicycle-Friendly Streetscapes.* The Town shall ensure that streets include the appropriate level of bicycle-friendly accommodation by providing appropriate facility design, way-finding, and crossing in accordance with the updated Street Classifications and Routes Maps of this Plan. (New)
BP 4.4.4	*Bicycle Signals.* Where bike lanes and routes encounter traffic signals, the Town should explore intersection modifications that would make crossing intersections safer for bicyclists. (New)

GOALS AND POLICIES

Goal BP 4.5: Traffic Calming. To *provide traffic calming opportunities that would reduce through traffic, traffic speed and bicycle speed in order to provide safer conditions for motorists, pedestrians, and bicyclists.*
(New Goal)

Policies

BP 4.5.1	*Speed Management.* The Town shall develop and implement speed management policies that support safe and appropriate driving speeds on all public streets that are also designated for use by bicyclists and pedestrians. (Policy M ~~5.3.4.6~~ 4.2.3.6, Town's General Plan)
BP 4.5.2	***Roundabouts.*** The Town shall utilize roundabouts instead of stop signs for intersection traffic control along designated bikeways to improve safety and traffic flow, where deemed appropriate from a traffic engineering perspective. (Policy M 4.2.3.5, Town's General Plan)
BP 4.5.3	*Intersections.* The Town shall incorporate intersection redesign techniques that slow traffic, improve bicycle and pedestrian visibility and direct or redirect users to more suitable routes where deemed appropriate from a traffic engineering perspective using such techniques as curb extensions, tighter turning radii, raised intersections, mini roundabouts, etc. (New)
~~*BP 4.5.4*~~	~~*Narrowed Lanes.* Where bike routes and lanes are provided, the Town shall narrow travel lanes in accordance with the updated Street Classifications and Routes.~~ *(The Town Engineer does not support narrow travel lanes)*

GOALS AND POLICIES

Goal BP 4.6: Wayfinding. To develop and implement a comprehensive wayfinding system that helps to improve safety along bicycle and pedestrian routes, is respectful to the privacy of residents, reflects community character, is sparingly used while aesthetically appealing, and incorporates technology. (New Goal)

Policies

~~*BP 4.6.1*~~ *DELETE*	~~*Comprehensive Wayfinding System.* The Town shall design a network signage system providing wayfinding, information, and directional signs and includes an area/street map identifying designated routes connecting to key destinations in Paradise Valley and the region. (New)~~ *(Covered in the following policies)*
BP 4.6.1~~2~~	*Safe Facilities.* The Town shall create safer bicycle and pedestrian facilities through the appropriate use of signage and wayfinding that ~~make routes more visible,~~ provides accessibility to a wide range of users~~,~~ and educates ~~and informs~~ about the rules of the road. (New)
BP 4.6.2~~3~~	*Resident Privacy.* The Town shall only publicize ~~sign~~ routes that are identified in this Plan. (New)
BP 4.6.3~~4~~	*Community Character.* The Town shall incorporate materials and the neutral color palette already established on existing Town ~~PV~~ signs to ensure continuity throughout Town. (New)
BP 4.6.4~~5~~	*Maintenance.* The Town shall establish a maintenance and replacement schedule to ensure signs are not faded or damaged. (New)
BP 4.6.5~~6~~	*Aesthetic Appeal.* Where allowable under federal, state, and regional regulations; the Town shall not install signage, use the minimum number of signs necessary, use ground plane signs where possible over vertical signs, and/or modify the type of materials, colors, sign spacing, sign type, or other aspects such that this signage fits into the context and character of the area. ~~The town shall incorporate welcoming and suggestive language rather than authoritative language. Use MUTCD Fabrication techniques, base sign height on *user's* perspective (i.e.: Pedestrian vs. Vehicular). Respond to the materials used when determining sign shape and form.~~ (New)
BP 4.6.6~~7~~	*Minimize Quantities.* When deemed necessary by the Town Engineer, ~~T~~the Town shall locate ~~vertical signs and ground plane~~ signs primarily at intersections and junctions/entry points with other bicycle facilities. (New)
BP 4.6.7~~8~~	*Technology.* The Town shall incorporate the latest wayfinding technologies to complement physical wayfinding to be accessible with GPS and coordinate with existing online map tools and aps for hiking and biking ~~communities~~. (New)
~~*BP 4.6.9*~~ *DELETE*	~~*Visual Character Hierarchy.* The Town shall develop a graphic hierarchy based upon street classifications and develop a basic vocabulary of spatial features that assist wayfinding and imageability: identifiable places, landmarks and neighborhoods. (New)~~ *(Covered in BP 4.6.6)*

IMPLEMENTATION MEASURES

MPLEMENTATION MEASURES

Non-Motorized Mobility Implementation Program		2017-2019	2020-2024	2025-2029	Annual	Ongoing
1. Maintain and update an inventory and map of the Town's non-motorized transportation network~~, including sidewalks, buffered bike lanes, bike routes, trails, shared-use paths, and the wayfinding/signage system and incorporate into an asset management program. This inventory combined with the Project Prioritization Criteria will assist in determining priorities for ongoing network improvement~~. (Table 4.5-1, Measure #6 in Town's General Plan)		~~X~~				X
Implements Which Policy(ies)	M 4.2.1.1, M 4.2.1.2, M 4.2.1.3, M 4.2.1.4, M 4.2.1.5, M 4.2.3.1, M 4.2.3.2, M 4.2.3.4, M 4.2.3.7, M 4.2.3.8 (To be updated with approval of goals and policies)					
Responsible Party(ies)	Community Development, Engineering Division supported by Public Works Department					
2. Use asset management techniques to ~~Define and~~ implement ~~long range program for~~the construction and maintenance of the Town's ~~a continuous system of~~ non-motorized circulation facilities for the benefit of the residents. (Table 4.5-1, Measure #7 in Town's General Plan)		~~X~~			X	X
Implements Which Policy(ies)	M 4.2.1.1, M 4.2.1.2, M 4.2.1.3, M 4.2.1.4, M 4.2.1.5, M 4,2.2.5, M 4.2.3.2, M 4.2.3.3, M 4.2.3.4, M 4.2.3.5, M 4.2.3.7, M 4.2.3.8 (To be updated with approval of goals and policies)					
Responsible Party(ies)	Community Development, Engineering Division, Public Works Department supported by Town Council					

- Commission reviewed in Feb '17
- Track changes show proposed changes since Feb '17
- Request Commission identify
  - Edits
  - Deletions
  - Additions

IMPLEMENTATION MEASURES

		2017-2019	2020-2024	2025-2029	Annual	Ongoing
3. Develop and maintain a high quality design of the roadway, bicycle and pedestrian network that promotes the character and image of the Town, reduces negative environmental impacts including noise and minimizes adverse impacts to the neighborhood through the use of roadway cross sections, traffic ~~counts~~ calming and control techniques, intersection enhancements, traffic counts, and high quality hardscaping and landscaping. (Table 4.5-1, Measure #11 in Town's General Plan)						X
Implements Which Policy(ies)	M 4.4.1.3, M 4.4.1.4, M 4.4.2.1, M 4.4.2.2, M 4.4.2.3, M 4.4.2.4, M 4.4.2.5, M 4.4.2.6 (To be updated with approval of goals and policies)					
Responsible Party(ies)	Community Development, Engineering Division, Public Works Department supported by Town Council					
4. Preserve existing rights-of-way, except when necessary to implement the maps and standards adopted by the Town (e.g. Bicycle + Pedestrian Master Plan, Visually Significant Corridors Master Plan, and General Plan), or ~~Update the existing Motorized and Non-motorized Circulation Maps and both motorized and non-motorized cross sections standards to reflect those identified in this Plan and revise~~ when necessary to allow for innovative alignments, abandonments, or ~~and~~ shared-use by different travel modes as appropriate. (Table 4.5-1, Measure #12 in Town's General Plan)		~~X~~				X
Implements Which Policy(ies)	M 4.4.2.7, M 4.4.2.8, M 4.4.2.9 (To be updated with approval of goals and policies)					
Responsible Party(ies)	Community Development, Engineering Division					

IMPLEMENTATION MEASURES

		2017-2019	2020-2024	2025-2029	Annual	Ongoing
5. Complete high priority projects that best meet the project prioritization criteria of this Plan related to an increase in safety, to close a gap in the network, to improve linkages to destinations desired by residents, to lessen disruptive/aggressive behavior, that result in heavy usage, result in cost or time savings by combining with other projects, and/or projects that address multiple travel modes, ~~and loops to destinations desired by residents.~~ (New)		X	X			X
Implements Which Policy(ies)	(To be updated with approval of goals and policies)					
Responsible Party(ies)	Public Works Department , Engineering Division supported by Community Development, Town Council and Town Manager					
6. Evaluate the need, application, and cost sharing for the institution of traffic calming measures for both motorized vehicles and bicyclists on a neighborhood basis as requested by individual neighborhoods. This should include an assessment of various techniques, ~~development~~ design guidelines, cost sharing, administrative process for the potential installation of individual techniques~~devices~~ and maintain a list of various traffic calming measures. Consider priority traffic/bicycle calming projects at Camelback Manor Drive/Lincoln and Hummingbird Lane near Mummy Mountain~~Doubletree Road at the Town's eastern boundary~~. (Table 4.5-1, Measure #2 of the Town's General Plan)		X				X
Implements Which Policy(ies)	M 4.1.1.6, M 4.1.2.1, M 4.1.2.2, M 4.2.3.5, M 4.2.3.6, M 4.4.1.5 (To be updated)					
Responsible Party(ies)	Community Development, Engineering Division, supported by Town Council					

IMPLEMENTATION MEASURES

		2017-2019	2020-2024	2025-2029	Annual	Ongoing
7. Develop education ~~and enforcement~~ programs, activities, and/or web based and print materials related to aiding enforcement and guidance to persons about the Town's transportation network (e.g. ~~including such things as~~ maps, special education events and activities, traffic enforcement days/weeks, school visits, walk and bike days, wayfinding technology)~~, and exclusive use times/days on select bicycle facilities~~. ~~Distribute maps and information widely in Town offices, libraries, schools, bike shops, resorts, and other recreational retail outlets. Solicit advertisers and sponsor to offset printing costs.~~ (New)		X				X
Implements Which Policy(ies)	(To be updated with approval of goals and policies)					
Responsible Party(ies)	Police Department, Community Development, Engineering Division Public Works Department supported by Town Council					
8. ~~Complete the Wayfinding/Signage schematic design phase with a professional environmental graphic designer for the signage types defined in this Plan. (New)~~						
~~**Implements Which Policy(ies)**~~	~~(To be updated)~~		X			
~~**Responsible Party(ies)**~~	~~Community Development, Public Works supported by the Town Council and Town Manager~~					

IMPLEMENTATION MEASURES

		2017-2019	2020-2024	2025-2029	Annual	Ongoing
9. Install ~~Prioritize installation of~~ appropriate bicycle and/or pedestrian signage as identified in this Plan concurrent with specific projects~~prior to major striping revisions and/or buffered bike lane, trail or shared-use path construction as a lower cost means of communicating information to bicyclists, pedestrians and drivers of motorized vehicles~~. (New)			X			
Implements Which Policy(ies)	(To be updated with approval of goals and policies)					
Responsible Party(ies)	Public Works Department supported by Community Development, Engineering Division					
10. ~~Develop wayfinding technology as described in this Plan to supplement any signage or pavement markings. (New)~~			X			X
~~**Implements Which Policy(ies)**~~	~~TO BE DEVELOPED~~					
~~**Responsible Party(ies)**~~	~~Community Development, Engineering Division, Public Works Department supported by Town Council~~					
11. Coordinate with local resorts on the Town's desired bicycle and pedestrian routes for guests, potential shared parking and seasonal trolleys. (New)		X				X
Implements Which Policy(ies)	(To be updated with approval of goals and policies)					
Responsible Party(ies)	Community Development, Public Works Department supported by Town Council and Town Manager					

IMPLEMENTATION MEASURES

		2017-2019	2020-2024	2025-2029	Annual	Ongoing
12. Designate a Town staff person to represent the Town of Paradise Valley on the MAG Pedestrian and Bicycle Committee to coordinate facility development, ensure that regional bikeway system designations are consistent with the Town's Bicycle Facilities Plan, and be kept aware of potential funding sources. (New)		X				X
Implements Which Policy(ies)	(To be updated with approval of goals and policies)					
Responsible Party(ies)	Community Development, Public Works Department					
13. Coordinate with adjacent municipalities~~cities~~ on mutually beneficial projects, potential project cost sharing, mapping, shared parking, and trolley/~~-and~~ transit routes/~~-and~~ stops ~~and~~ to ensure safe and efficient linkages. ~~Timely projects with the City of Phoenix include 32nd Street and Tatum Blvd. improvement.~~ (Table 4.5-1, Measure #1 in the Town's General Plan)		X				X
Implements Which Policy(ies)	M 4.1.1.1, M 4.1.1.3, M 4.1.1.5, M 4.2.3.7 (To be updated with approval of goals and policies)					
Responsible Party(ies)	Community Development, Engineering Division supported by Town Council					

IMPLEMENTATION MEASURES

		2017-2019	2020-2024	2025-2029	Annual	Ongoing
14. Promote local transit services for the Town and Special Event transit services for resort visitors; and ensure that public transit and trolley stops in the Town are functional and attractive. Cooperate with transit agencies, neighboring jurisdictions and local resorts for improving transit, trolley, and ride share pick up points and produce route maps that are shared with residents, resorts and adjacent communities. (Table 4.5-1, Measure #5 in the Town's General Plan)		~~X~~				X
Implements Which Policy(ies)	M 4.3.2.1, M 4.3.2.2 (To be updated with approval of goals and policies)					
Responsible Party(ies)	Town Council, Town Manger supported by Community Development, Engineering Division and Public Works Department					
15. Implement internal policies that ensure proper communication and coordination among the various departments and sections working to improve bicycling and walking in Paradise Valley. (New)		X				X
Implements Which Policy(ies)	(To be updated with approval of goals and policies)					
Responsible Party(ies)	Police Department, Community Development, Engineering Division, Public Works Department supported by Town Manager					

IMPLEMENTATION MEASURES

		2017-2019	2020-2024	2025-2029	Annual	Ongoing
16. Institute a pavement reduction plan on local streets where appropriate to lessen long term maintenance costs and to provide unpaved pedestrian space within the public right of way. (New)						
Implements Which Policy(ies)	(To be updated with approval of goals and policies)			X		X
Responsible Party(ies)	Engineering Division, Public Works Department					
17. Review Town codes, standards, policies and procedures to ensure they include guidelines for providing a continuous pedestrian route between public pedestrian facilities and main entrances of public or semi-public buildings. (New)						
Implements Which Policy(ies)	(To be updated with approval of goals and policies)		X			X
Responsible Party(ies)	Community Development, Engineering Division					
18. Develop capital improvement, operations and management budgets to properly develop, maintain and improve the bicycle and pedestrian network and the related wayfinding system in the Town. (New)						
Implements Which Policy(ies)	(To be updated with approval of goals and policies)	X				X
Responsible Party(ies)	Town Manager supported by Community Development, Public Works					

TIMELINE

TIMELINE

PV Bike-Ped Master Plan Upcoming Events (Tentative)		
09/05/2017	**Planning Commission Work Session:** Review revised route maps and street cross-sections; Review Mission Statement; and Review/edit Goals & Policies	
09/19/2017	**Planning Commission Work Session:** Review any unfinished items from prior meeting; Review Projects-Prioritization Criteria; and Review Implementation Measures	
09/28/2017	**Town Council Work Session/Meeting:** Discuss Statement of Direction (SOD) based on Planning Commission input	
10/17/2017	**Planning Commission Work Session:** Update on Council; Review any unfinished items from prior meeting	
	Consultant and staff prepare Draft Plan 2, including rough costs for identified high-priority projects	
Target 10/27/17	Release of Draft Plan 2	Changed from 10/03/2017
11/02/2017	**Town Council Work Session:** Update	Changed from 10/12/2017
11/07/2017	**Planning Commission Citizen Review:** Required public input meeting and discuss Draft Plan 2	Changed from 10/17/2017
12/05/2017	**Planning Commission Action:** Recommendation to Town Council	Changed from 11/07/2017

PV Bike-Ped Master Plan Upcoming Events (Tentative)		
12/21/2017	**Town Council Study Session:** Review core standards and supporting standards (e.g., route maps/street cross-sections/traffic calming/enhanced intersections/wayfinding) - the physical components and Review Goals & Policies	Changed from 11/16/2017
01/11/2018	**Town Council Study Session:** Review Implementation Measures; Review projects/cost; and Review the rest of the Draft Plan 2 recommended by Planning Commission.	Changed from 12/07/2017 and/or 12/21/17
	Consultant and staff prepare Draft Plan 3 based on Town Council comments	
Target 01/26/2018	Release of Draft Plan 3	Changed from 01/12/2018
02/08/2018	**Town Council Action:** Take action on Master Plan	Changed from 01/25/2018
Date timeline prepared: 09/12/2017		
Timeline subject to change		